

DENON

Hi-Fi AM-FM Stereo Receiver

SERVICE MANUAL

MODEL DRA-585RD

AM-FM STEREO RECEIVER

For Europe
And U.K. Models

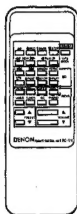
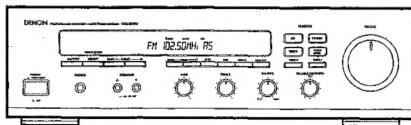
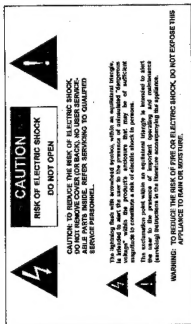


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NIPPON COLUMBIA CO., LTD.



PRECAUTIONS FOR INSTALLATION Assurez-vous d'observer les règles de sécurité relatives à l'installation de cet appareil. Lisez attentivement les instructions de l'utilisateur et les instructions de l'installateur. Les instructions de l'installateur sont disponibles dans le manuel de l'utilisateur. Les instructions de l'utilisateur sont disponibles dans le manuel de l'utilisateur. Les instructions de l'installateur sont disponibles dans le manuel de l'utilisateur.

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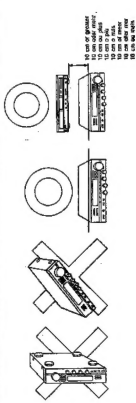
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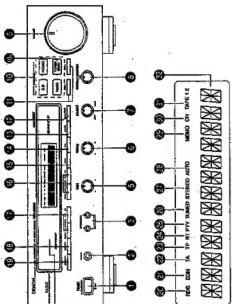
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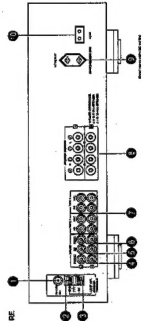


FRONT PANEL
VORDERSEITE
PANNELLO ANTERIORE
PANEL ANTERIOR
FRAMMEN
PANEL FRONTAL



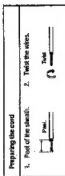
DISPLAY
ARTESHAJE
RISPARTE
KOPPLAAR
DISPILATIN
MESTHAIOR

REAR PANEL
RICKSEIT
PANNELLO POSTERIORE
PANEL POSTERIOR
BACHSEIT
PANEL TIMSEIRO



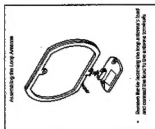
SPEAKER CONNECTION

SPEAKER CONNECTION
Confirm polarity (+/-) and left and right channels (L, R). Connect the speaker pairs to the SPEAKER terminals A or B on the back panel. Connections must be made with power cord disconnected.



Constructive the front speaker terminals

1. Loosen by turning counterclockwise.
2. Insert the cord and tighten by turning clockwise.



130000

- Do not connect two FM antennas simultaneously.
- Even if an optional AM antenna is used, do not disconnect the AM loop antenna.
- Make sure AM loop antennas lead terminals do not touch metal parts of the panel.

ANTENNA INSTALLATION

THE ADVENTURE

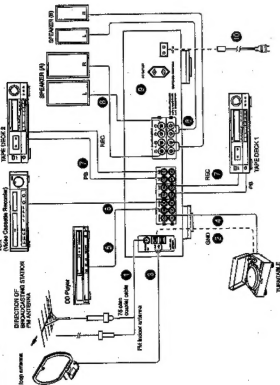
The supplied indoor FM antennas can be used inside wooden houses for receiving local FM stations and other strong FM signals. Switch out the end of the antenna and mount the antenna on the wall or ceiling where optimum reception is achieved. An indoor FM antenna may not consistently capture stable reception, due to environmental changes. In such cases, the indoor FM antenna should only be used temporarily until an outdoor FM antenna has been installed.

• **ALL'ATTENZIONE**

Attach the supplied AM loop antenna to the antenna and connect the leads to the AM and GND terminals.
Connect the antenna to the outdoor AM antenna.

Also use the AM terminals for connecting an outdoor AM antenna (when making such a connection do not disconnect the AM loop entirely). Adjust the loop antenna to obtain optimum reception. When broadcast stations are distant and only weak signals are received or when signals are blocked, it is best to install an outdoor AM antenna.

CONNECTIONS



Notes on Contributors

- Do not plug the power cord into the AC wall outlet until all connections have been completed.**
- Main power terminals are easily connected. Connect Left channel to Left channels and Right channels to Right channels. Follow the color markings of plugs and terminals to make sure mistakes are not made.**
- Connectors will fit snugly, pushing them completely into the jack. Incomplete connections will cause noise generation.**
- Making the connections closer to power cords, or running such cables close to power supply transformers will cause humming or noise, and should thus be avoided.**

5

4. AUTO (Tuning) mode button

This button is used to start automatic tuning.

Auto tuning: When the TP button is pressed, the radio is tuned to the lowest frequency. Use this position to determine when the channel is clear. When the radio is clear, the radio will tune to the next channel. When the radio is not clear, the radio will return to the lowest frequency. When the radio is clear, the radio will tune to the next channel. When the radio is not clear, the radio will return to the lowest frequency.

5. TUNING (Tuning) button

Use this button to change the received frequency to a higher frequency. When the TUNING button is pressed, the radio will tune to the next channel. When the radio is not clear, the radio will return to the lowest frequency.

6. PRESET (Preset) button

Press the PRESET button to store the received frequency in the preset memory. When the PRESET button is pressed, the radio will store the received frequency in the preset memory. When the radio is not clear, the radio will return to the lowest frequency.

7. MEMORY (Memory) button

This button is used to store the received radio station to a memory.

Shift / FVY button: When the Shift / FVY button is pressed, the radio will store the received radio station to a memory. When the radio is not clear, the radio will return to the lowest frequency.

8. MUTE

When the MUTE button is pressed, the radio will mute the received radio station. When the MUTE button is pressed, the radio will mute the received radio station. When the radio is not clear, the radio will return to the lowest frequency.

9. USING THE VARIOUS FUNCTIONS

1. Using the auto preset memory function

This function automatically stores the received radio station to the preset memory. Use the function to store the received radio station to the preset memory. When the radio is not clear, the radio will return to the lowest frequency.

Operation

1. Connect the antenna and select the TP mode.
2. Press the TUNING button to select the received radio station.
3. Press the MEMORY button to store the received radio station to the preset memory.

2. Storing own stations as the preset channels

When the TUNING button is pressed, the radio will store the received radio station to the preset memory. When the radio is not clear, the radio will return to the lowest frequency.

Operation

1. Press the TUNING button to select the received radio station.
2. Press the PRESET button to store the received radio station to the preset memory.
3. Press the TUNING button to select the received radio station.
4. Press the MEMORY button to store the received radio station to the preset memory.

3. Receiving preset channels

Use the following operation to receive preset channels.

Operation

1. Use the TUNING button to select the preset channel.
2. Press the TUNING button to select the received radio station.
3. Press the PRESET button to select the received radio station.
4. Press the TUNING button to select the received radio station.

4. Upgrading characters

Any character can be replaced by a character.

The upgrade characters can be stored in the preset channels.

Operation

1. Press the TUNING button to select the received radio station.
2. Press the TUNING button to select the received radio station.
3. Press the TUNING button to select the received radio station.
4. Press the TUNING button to select the received radio station.

5. Press the TUNING button

When the TUNING button is pressed, the radio will store the received radio station to the preset memory. When the radio is not clear, the radio will return to the lowest frequency.

6. Press the TUNING button

When the TUNING button is pressed, the radio will store the received radio station to the preset memory. When the radio is not clear, the radio will return to the lowest frequency.

7. Press the TUNING button

When the TUNING button is pressed, the radio will store the received radio station to the preset memory. When the radio is not clear, the radio will return to the lowest frequency.

8. Press the TUNING button

When the TUNING button is pressed, the radio will store the received radio station to the preset memory. When the radio is not clear, the radio will return to the lowest frequency.

Table of characters

The characters are listed in the order shown to the right. Use the TUNING button to select the desired character.

→ ABCDEFGHIJKLMNOPQRSTUVWXYZ
→ 0123456789-*/~:;.,/SPACE

DISPLAY

1. RDS indicator

This light will flash when RDS broadcast, and flashes during the RDS data operation.

2. EON indicator

This light will flash when EON function.

3. TA indicator

This light will flash when TA function.

4. TP indicator

This light will flash when TP function.

5. RT indicator

This light will flash when RT function.

6. FVY indicator

This light will flash when FVY function.

7. TUNED indicator

This light will flash when TUNED function.

8. STEREO indicator

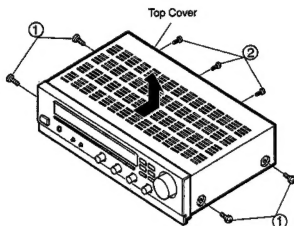
This light will flash when STEREO function.

DISASSEMBLY

(To reassemble reverse disassembly)

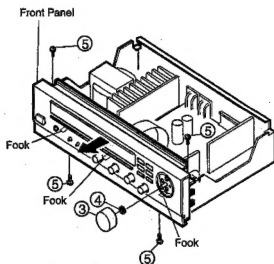
1. Top Cover

- (1) Remove 4 screws ①.
- (2) Remove 3 screws ②.



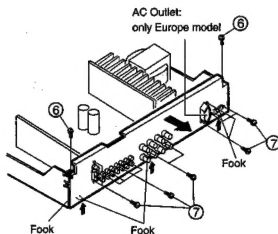
2. Front Panel

- (1) Pull out Volume knob ③.
- (2) Remove nut ④.
- (3) Remove 4 screws ⑤ and undo hooks at 3 places.

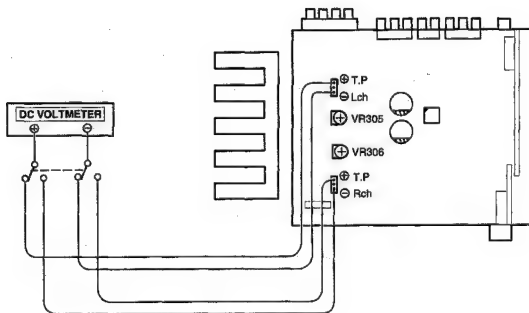


3. Rear Panel

- (1) Remove 2 screws ⑥ and 12 fixing screws ⑦.
- (2) Remove hooks at 3 places in arrow direction (↓).



METHOD OF ADJUSTMENTS



IDLING CURRENT

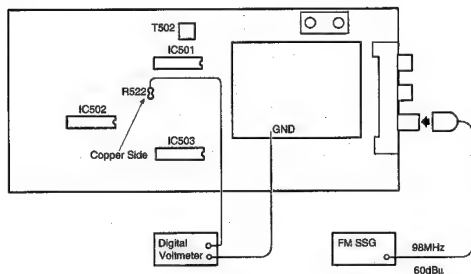
- (1) Set controls as follows.

POWER Switch → off (■)
 VOLUME Control → 0 (min.)
 SPEAKERS → off (■)
 Temperature → 15°C ~ 30°C (59°F ~ 86°F)
 VR305 and VR306 of the 1U-2817 (Main Unit) → MIN. (↻)

- (2) Connect DC Voltmeter to the T.P. Lch and T.P. Rch of the 1U-2817.
 (3) Turn the Power Switch on and rotate VR305 clockwise so that the DC Voltmeter reads 3 mV \pm 0.2 mV DC at the T.P. Lch. Follow the same procedure to VR306 for T.P. Rch.
 (4) Warm up for three minutes, then readjust VR305 and VR306 so that the DC Voltmeter reads 3 mV \pm 0.5 mV DC.
 (5) Warm up for 10 minutes, then readjust VR 305 and VR306 so that the DC Voltmeter reads 2.7 mV \pm 0.5 mV DC.

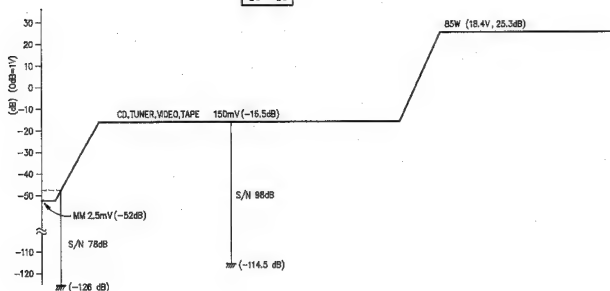
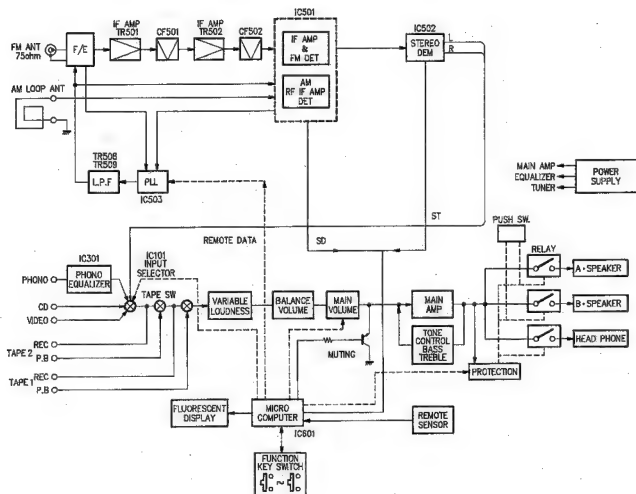
CONNECTINON DIAGRAM OF MEASURING INSTRUMENTS

● FM SECTION



Adjust T502, Potential difference across R522 should be within 50mV.

BLOCK/LEVEL DIAGRAM



Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R401	247 0013 900	Carbon chip 220kohm 1/10W	RM73B-224J	C331,332	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R402	247 0009 985	Carbon chip 10kohm 1/10W	RM73B-103J	C333,334	254 4260 922	Electrolytic 0.33µF/50V	CE04W1HR33M
R403	247 0009 901	Carbon chip 4.7kohm 1/10W	RM73B-472J	C335,336	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J
R404,405	247 0007 945	Carbon chip 1kohm 1/10W	RM73B-102J	C337,338	257 0002 992	Ceramic chip 20pF/50V	CC73SL1H200J
R406	247 0009 985	Carbon chip 10kohm 1/10W	RM73B-103J	C339,340	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M
R407	247 0010 958	Carbon chip 20kohm 1/10W	RM73B-203J	C341,342	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J
R408	247 0009 985	Carbon chip 10kohm 1/10W	RM73B-103J	Δ C353,354	256 1034 979	Metallized 0.1µF/50V	CE04W1HR34J
R409	247 0007 945	Carbon chip 1kohm 1/10W	RM73B-102J	C355,356	255 1285 978	Film 0.022F/50V	CO93M1H223J(B)
R410	247 0009 901	Carbon chip 4.7kohm 1/10W	RM73B-472J	C357	254 4260 948	Electrolytic 1mF/50V	CE04W1H010M
Δ R411	244 2051 967	Metal oxide film 4.7kohm 1W	RS14B3A47J,NBS(S)	C358	253 9030 963	Ceramic 0.01µF/25V	CK45=1E100K
Δ R412	241 2377 947	Carbon 100ohm 1/4W	RD14B2E10J,NBS	C359,360	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
Δ R415	241 2387 908	Carbon 12ohm 1/4W	RD14B2E01J,NBS	C401	254 4258 905	Electrolytic 4.7µF/35V	CE04W1V477M
Δ R451,452	244 2052 902	Metal oxide film 2.7kohm 1W	RS14B3A27J,NBS(S)	C402	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
Δ R453	244 2051 990	Metal oxide film 4.7kohm 1W	RS14B3A47J,NBS(S)	C403	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R460	247 0011 944	Carbon chip 47kohm 1/10W	RM73B-473J	C404,405	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z
Δ R465,466	244 2052 902	Metal oxide film 2.7kohm 1W	RS14B3A27J,NBS(S)	C406	259 0007 702	For back up 8200µF	SB CAP—822—C
Δ R467	244 2050 991	Metal oxide film 5kohm 1W	RS14B3A68J,NBS(S)	C407	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R468	244 2052 957	Metal oxide film 5.6kohm 1W	RS14B3A56J,NBS(S)	C408	254 4403 734	Electrolytic 4700µF/25V	CE04W1E472MC(SMG)
R475	247 0010 929	Carbon chip 15kohm 1/10W	RM73B-153J	C409	254 4261 921	Electrolytic 100µF/50V	CE04W1H101M
R701,702	247 0009 901	Carbon chip 4.7kohm 1/10W	RM73B-472J	C410	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R703,704	247 0012 968	Carbon chip 150kohm 1/10W	RM73B-154J	C451	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
R705,706	247 0011 986	Carbon chip 68kohm 1/10W	RM73B-683J	C452	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M
R707,708	247 0004 922	Carbon chip 47ohm 1/10W	RM73B-470J	C453	254 4250 945	Electrolytic 330µF/6.3V	CE04WUJ331M
R709,710	247 0005 982	Carbon chip 240ohm 1/10W	RM73B-241J	C456	255 1285 938	Film 0.01µF/50V	CO93M1H103J(B)
R711,712	247 0012 956	Carbon chip 130kohm 1/10W	RM73B-134J	C459,460	253 1151 905	Ceramic 4700pF/500V	CK45E2H472P
R713,714	247 0009 998	Carbon chip 11kohm 1/10W	RM73B-113J	Δ C461	254 1042 903	Metallized 0.1µF/250V	CE04W1H010M
R715,716	247 0003 949	Carbon chip 22ohm 1/10W	RM73B-220J	C462	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
R717,718	247 0005 905	Carbon chip 100ohm 1/10W	RM73B-101J	C549	254 4252 927	Electrolytic 47µF/10V	CE04W1A470M
R719,720	247 0012 927	Carbon chip 100kohm 1/10W	RM73B-104J	C701,702	257 0003 988	Ceramic chip 47pF/50V	CC73SL1H470J
CAPACITORS GROUP				C703,704	257 0005 944	Ceramic chip 220pF/50V	CC73SL1H221J
C101-108	257 0004 903	Ceramic chip 56pF/50V	CC73SL1H560J	C705,706	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C109,110	253 1179 945	Ceramic 220pF/50V	CK45B1H221KT	C709,710	254 4250 929	Electrolytic 100µF/6.3V	CE04WUJ101M
C111	257 0002 921	Ceramic chip 10pF/50V	CC73SL1H100D	C711,712	255 4199 999	Film 0.024µF/50V	CO92M1H243J(MRZ)
C112,113	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z	C713,714	255 1265 907	Film 6800pF/50V	CO93M1H682J(B)
C124,125	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z	C715,716	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C127	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z	C717,718	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z
C131-134	257 0004 903	Ceramic chip 56pF/50V	CC73SL1H560J	C724	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C201-204	255 1265 907	Film 6800pF/50V	CO93M1H682J(B)	C725	257 0012 962	Ceramic chip 0.022µF/50V	CK73F1H223Z
C205,206	257 0006 985	Ceramic chip 820pF/50V	CC73SL1H821J	C801,802	257 0016 982	Ceramic chip 27pF/50V	CC73CH1H270J
C251-254	254 4258 918	Electrolytic 10µF/35V	CE04W1V100M	C803-805	254 4250 916	Electrolytic 47µF/6.3V	CE04WUJ470M
Δ C257,258	254 6201 002	Electrolytic 7200µF/33V	CE04W—7220A(CDL)	C807,808	257 0003 933	Ceramic chip 30pF/50V	CC73SL1H300J
C259	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z	C809	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C307,308	257 0006 927	Ceramic chip 470pF/50V	CC73SL1H471J	C810	254 4250 916	Electrolytic 47µF/6.3V	CE04WUJ470M
C311-314	253 4636 909	Ceramic 10pF/50V	CC45SL1H100D	C811	257 0006 943	Ceramic chip 560pF/50V	CC73SL1H561J
C323,324	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M				
C325,326	255 1285 936	Film 0.01µF/50V	CO93M1H103J(B)				

1U-2818 TUNER UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
OTHERS PARTS GROUP				SEMICONDUCTORS GROUP			
CB29D	206 0900 045	29P FFC connector base		IC501	263 0891 001	IC LA1265(S)	
CB6A,6C	205 0918 001	6P bottom socket		IC502	263 0439 007	IC LA3401	
CB8A	205 0918 014	8P bottom socket		IC503	263 0791 907	IC LM7001M	
CB8B,8C	205 0806 050	8P connector base (9115)		IC504	263 0794 001	IC NJM78M12FA(S)	
CN3C	203 2377 000	2P DA-DA connector cord		TR501	275 0074 902	Transistor 2SK211(VGR)	
CN7A	205 0653 078	7P VH connector base		TR502	273 0438 908	Transistor 2SC2413K (Q)	
L391,392	235 0104 007	Inductor(1MHz)		TR503	269 0157 905	Transistor DTB123EK	Built in resistor
L701,702	235 9003 002	FTZ choke coil		TR504	269 0083 901	Transistor DTA114EK	Built in resistor
RL451,452	214 0167 005	Relay(G5Z-2A)		TR505,506	269 0054 901	Transistor DTC144EK	Built in resistor
RL453	214 0127 003	Relay(RY-12W)		TR507	271 0279 909	Transistor 2SA1515(R)	
TH451	279 0034 067	Poisistor	PTH9MD4B8222TS2F333	TR508	275 0075 901	Transistor 2SK208(VGR)	
TP001,002	205 0190 036	3P NH Connector base	TEST POINT	TR509	273 0403 904	Transistor 2SC2712(VGR)	
XL601	399 0178 007	Crystal	4.332MHz				
XT801	399 0041 901	Resonator	CS44.00MG				
	205 0484 001	8P speaker terminal	Europe model	D501	276 0559 909	Diode DAP202K	
	203 0475 072	1P contact Ass'y					
	205 0472 013	8P speaker terminal	U.K model				
	204 8465 009	4P pin jack(S-GND)					
	204 8466 006	6P pin jack(S-GND)					
				RESISTORS GROUP (Not included carbon film $\pm 5\%$ 1/4W)			
				R001-016	247 0018 905	Chip 0.018 1/10W	RM73B-0R0K
				R501	247 0004 906	Chip 39ohm 1/10W	RM73B-390J
				R502	247 0007 945	Chip 1kohm 1/10W	RM73B-102J
				R503	247 0009 985	Chip 10kohm 1/10W	RM73B-103J
				R504	247 0009 927	Chip 5.6kohm 1/10W	RM73B-562J
				R505	247 0006 920	Chip 330ohm 1/10W	RM73B-331J
				R506	247 0009 901	Chip 4.7kohm 1/10W	RM73B-472J
				R507	247 0005 989	Chip 220ohm 1/10W	RM73B-221J
				R508,509	247 0006 920	Chip 330ohm 1/10W	RM73B-331J
				R510	247 0006 989	Chip 580ohm 1/10W	RM73B-561J
				R511	247 0012 927	Chip 100kohm 1/10W	RM73B-104J
				R512	247 0009 914	Chip 5.1kohm 1/10W	RM73B-512J
				R513	247 0005 905	Chip 100ohm 1/10W	RM73B-101J
				R514	247 0008 996	Chip 3.9kohm 1/10W	RM73B-392J
				R515	247 0006 946	Chip 390ohm 1/10W	RM73B-391J
				R516	247 0005 947	Chip 150ohm 1/10W	RM73B-151J
				R517	247 0009 985	Chip 10kohm 1/10W	RM73B-103J
				R518	247 0018 905	Chip 0.018 1/10W	RM73B-0R0K
				R519	247 0009 901	Chip 4.7kohm 1/10W	RM73B-472J
				R520	247 0004 980	Chip 82ohm 1/10W	RM73B-820J
				R521	247 0006 944	Chip 2.7kohm 1/10W	RM73B-272J
				R522	247 0011 902	Chip 33kohm 1/10W	RM73B-333J
				R523-525	247 0009 985	Chip 10kohm 1/10W	RM73B-103J
				R526	247 0008 957	Chip 3kohm 1/10W	RM73B-302J
				R527	247 0011 986	Chip 68kohm 1/10W	RM73B-683J
				R528	247 0009 956	Chip 7.5kohm 1/10W	RM73B-752J
				R529	247 0008 960	Chip 3.3kohm 1/10W	RM73B-332J
				R530	247 0012 927	Chip 100kohm 1/10W	RM73B-104J
				R532	247 0009 985	Chip 10kohm 1/10W	RM73B-103J
				R533	247 0007 945	Chip 1kohm 1/10W	RM73B-102J
				R534	247 0011 915	Chip 36kohm 1/10W	RM73B-363J

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R535	247 0010 974	Chip 24kohm 1/10W	RM73B-243J	OTHERS PARTS GROUP			
R536	247 0012 985	Chip 180kohm 1/10W	RM73B-184J	CF501,502	261 0064 007	Ceramic filter	SFT10.7MS2
R537	247 0012 998	Chip 200kohm 1/10W	RM73B-204J	CF504	261 0101 009	:Ceramic filter	BFU450C4N
R538	247 0012 985	Chip 180kohm 1/10W	RM73B-184J				
R539	247 0012 998	Chip 200kohm 1/10W	RM73B-204J	CN88,6C	205 0805 091	8P connector socket	
R540,541	247 0008 902	Chip 1.8kohm 1/10W	RM73B-182J				
R542,543	247 0009 901	Chip 4.7kohm 1/10W	RM73B-472J	FE501	216 0065 006	Front end	
R544	247 1007 988	Chip 1.5kohm 1/8W	RM73B23152J				
R545	247 0009 985	Chip 10kohm 1/10W	RM73B-103J	T501	231 1813 004	MW antenna OSC coil	
R546	247 0012 927	Chip 100kohm 1/10W	RM73B-104J	T502	231 2099 008	FM DET trans	
CAPACITORS GROUP				T503	231 3804 008	:AM IFT	
C601-506	257 0012 988	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z	T504	232 9010 009	Antibirdie filter	
C507	257 0002 947	Chip(Ceramic) 12pF/50V	CC73SL1H120J	T505,506	232 0065 004	:LPF	
C508	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M				
C509	257 0004 961	Chip(Ceramic) 100pF/50V	CC73SL1H101J	XL502	261 0103 007	:Resonator	CSB466F11
C510	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z	XL503	399 0075 003	Crystal	7.2MHz
C511	254 4260 906	Electrolytic 0.1 μ F/50V	CE04W1H0R1M		205 0847 004	3P antenna terminal(PAL/F)	
C513	254 3056 917	Electrolytic 1 μ F/50V (Non-polar)	CE04D1H010MBP		203 0526 031	1P Contact Assy	
C514	257 0012 982	Chip(Ceramic) 0.022 μ F/50V	CK73F1H223Z				
C515,516	257 0002 976	Chip(Ceramic) 18pF/50V	CC73SL1H180J				
C517	254 4254 938	Electrolytic 47 μ F/16V	CE04W1C470M				
C518,519	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z				
C520	254 4260 922	Electrolytic 0.33 μ F/50V	CE04W1HR33M				
C521	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z				
C522	254 4256 936	Electrolytic 47 μ F/25V	CE04W1E470M				
C523	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M				
C524	254 4260 964	Electrolytic 3.3 μ F/50V	CE04W1H3R3M				
C525	257 0012 982	Chip(Ceramic) 0.022 μ F/50V	CK73F1H223Z				
C526	257 0012 986	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z				
C527	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M				
C528	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M				
C529	257 1013 951	Chip(Ceramic) 0.047 μ F/25V	CK73F1E473K				
C530	254 4254 912	Electrolytic 22 μ F/16V	CE04W1C220M				
C531	257 0004 961	Chip(Ceramic) 100pF/50V	CC73SL1H101J				
C532	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M				
C533	254 4260 919	Electrolytic 0.22 μ F/50V	CE04W1HR22M				
C534	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M				
C535,536	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z				
C537	254 4254 912	Electrolytic 22 μ F/16V	CE04W1C220M				
C538	254 4254 938	Electrolytic 47 μ F/16V	CE04W1C470M				
C539,540	257 0005 960	Chip(Ceramic) 270pF/50V	CC73SL1H271J				
C541	254 4260 951	Electrolytic 2.2 μ F/50V	CE04W1H2R2M				
C545	253 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z				
C548	254 4260 951	Electrolytic 2.2 μ F/50V	CE04W1H2R2M				
C550,551	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M				
C553,554	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z				
C555	256 1034 937	Metallized 0.047 μ F/50V	CF93A1H473J				
C561	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73F1H103Z				

KU-9328 DISPLAY UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC801	282 2249 001	IC T1MP87CM71F-6348	
IC802	283 0905 900	IC BA6208F	
ZD651	276 0654 901	Zener diode DT28.2B	
RESISTORS GROUP (Not included carbon film $\pm 5\%$ 1/4W)			
VR301	211 0941 018	Variable 100kohm	V14P22FW104K
VR302	211 0931 002	Variable 100kohm	V1620V25FB104(MG)
VR303	211 0942 017	Variable 250kohm	V14P22FC254K
VR304	211 0943 016	Variable 50kohm	V14P22FC503K
VR307	211 9131 004	Variable 100kohm	V14P22FB104K
R301,302	247 0011 928	Chip 38kohm 1/10W	RM73S-393J
R303,304	247 0009 943	Chip 6.8kohm 1/10W	RM73S-682J
R361,362	247 0011 973	Chip 62kohm 1/10W	RM73S-623J
R363,364	247 0009 988	Chip 11kohm 1/10W	RM73S-113J
R365,366	247 0008 931	Chip 2.4kohm 1/10W	RM73S-242J
R367,368	247 0013 984	Chip 470kohm 1/10W	RM73S-474J
R369,370	247 0010 945	Chip 18kohm 1/10W	RM73S-183J
R371,372	247 0009 943	Chip 6.8kohm 1/10W	RM73S-682J
R373,374	247 0006 917	Chip 300kohm 1/10W	RM73S-301J
R375,376	247 0011 944	Chip 47kohm 1/10W	RM73S-473J
R378,380	247 0009 901	Chip 4.7kohm 1/10W	RM73S-472J
R651	247 1009 900	Chip 4.7kohm 1/8W	RM73S2B472J
R652-657	247 0009 985	Chip 10kohm 1/10W	RM73S-103J
R665	247 0007 945	Chip 1kohm 1/10W	RM73S-102J
R666	247 0005 976	Chip 200kohm 1/10W	RM73S-201J
R667	247 0006 917	Chip 300kohm 1/10W	RM73S-301J
R668	247 0007 945	Chip 1kohm 1/10W	RM73S-102J
R669	247 0005 976	Chip 200kohm 1/10W	RM73S-201J
R670	247 0006 917	Chip 300kohm 1/10W	RM73S-301J
R671	247 0007 945	Chip 1kohm 1/10W	RM73S-102J
R672	247 0005 976	Chip 200kohm 1/10W	RM73S-201J
R673	247 0006 917	Chip 300kohm 1/10W	RM73S-301J
R674	247 0006 975	Chip 510kohm 1/10W	RM73S-511J
R675	247 0007 945	Chip 1kohm 1/10W	RM73S-102J
R676	247 0007 945	Chip 1kohm 1/10W	RM73S-102J
R677	247 0005 976	Chip 200kohm 1/10W	RM73S-201J
R678	247 0006 917	Chip 300kohm 1/10W	RM73S-301J
R679	247 0006 975	Chip 510kohm 1/10W	RM73S-511J
R680	247 0007 945	Chip 1kohm 1/10W	RM73S-102J
R681	247 0009 985	Chip 10kohm 1/10W	RM73S-103J
R682,683	247 0009 985	Chip 10kohm 1/10W	RM73S-103J
R685	247 0008 957	Chip 3kohm 1/10W	RM73S-302J

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
C300	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73FH103Z
C301,302	257 0006 943	Ceramic 500pF/50V	CC73SL1H561J
C303,304	255 1265 978	Film 0.022 μ F/50V	CQ93MH223(JB)
C361,362	257 0004 961	Ceramic 100pF/50V	CC73SL1H101J
C363,364	255 1265 981	Film 0.027 μ F/50V	CQ93MH273(JB)
C365,366	256 1034 982	Metalized 0.12 μ F/50V	CF93AH124J
C367,368	255 1264 924	Film 1500pF/50V	CQ93MH152(JB)
C369,370	255 1265 936	Film 0.01 μ F/50V	CQ93MH103(JB)
C651	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73FH103Z
C652	254 4300 963	Electrolytic 100 μ F/6.3V	CE04WU101M(SRE)
C653	257 0012 966	Chip(Ceramic) 0.01 μ F/50V	CK73FH103Z
C655	254 4299 964	Electrolytic 47 μ F/16V	CE04WH1470M(SRE)
C657	257 0012 982	Chip(Ceramic) 0.022 μ F/50V	CK73FH223Z
C666	257 0004 961	Ceramic 100pF/50V	CC73SL1H101J
OTHERS PARTS GROUP			
C88D	205 0919 026	8P JQ socket(Side)	
CN28D	205 0690 045	29P FFC connector base	
CN6A,6C	205 0917 002	8P bottom plug	
CN8A	205 0917 015	8P bottom plug	
CN8D	205 0406 045	8P JQ socket	
FL401	393 4155 002	FL tube	FIP14AM7R
JK201	204 8354 017	Head phone jack	Black model
JK201	204 8355 003	Head phone jack	Gold model
RM601	498 0150 008	Remote sensor	SBX1610-S2
SW302,303	212 1140 009	Push switch(ESB6440)	
SW601-617	212 5804 910	Tact switch	
XL651	398 0261 901	Resonator	DCRH4.00M
	414 0740 006	Shield plate	

1U-2915 POWER UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
△C411	253 9014 702	Ceramic 0.01 μ F/400V AC	CK4SF2GA103MC
OTHERS PARTS GROUP			
△AC401	203 3961 004	1P AC outlet	Except to U.K.
△CH2A	203 2349 006	2P Inlet	
CN8A	205 0561 001	2P VH connector base	
△F401	206 1075 003	Fuse(2.0A)	
△F402	206 1075 001	Fuse(1A)	Except to U.K.
△SW401	212 1031 006	Power switch(TV-5)	
	415 0299 000	Condenser cover	
	202 0040 908	Fuse clip	

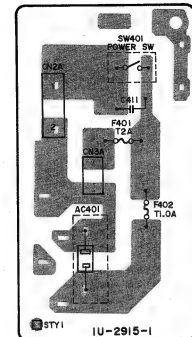
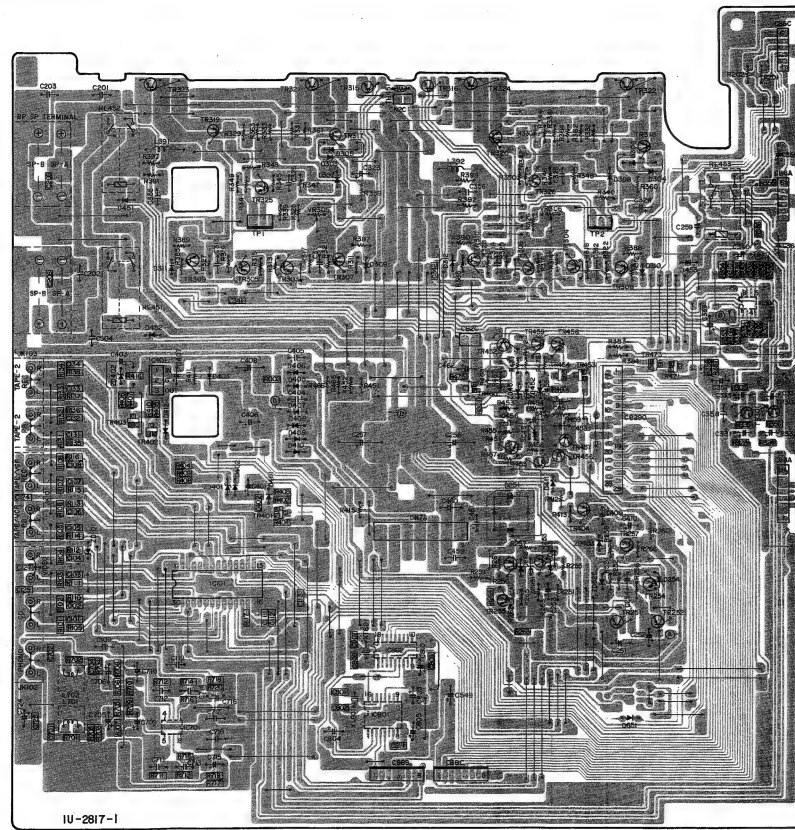
PRINTED WIRING BOARD PATTERNS

1 2 3 4 5 6 7 8

1U-2817 MAIN UNIT ASS'Y

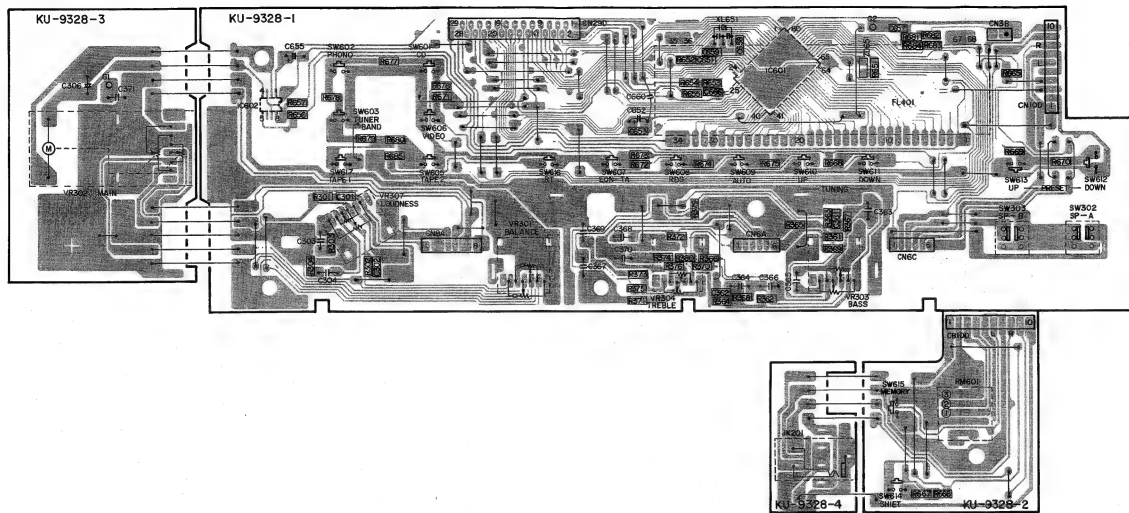
1U-2915 POWER UNIT ASS'Y

A
B
C
D
E

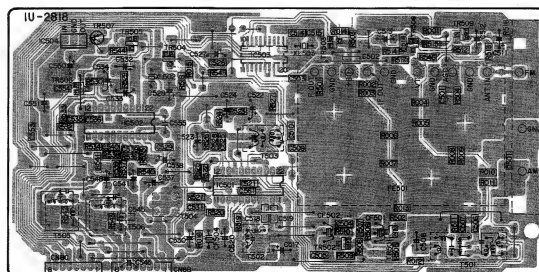


1 2 3 4 5 6 7 8

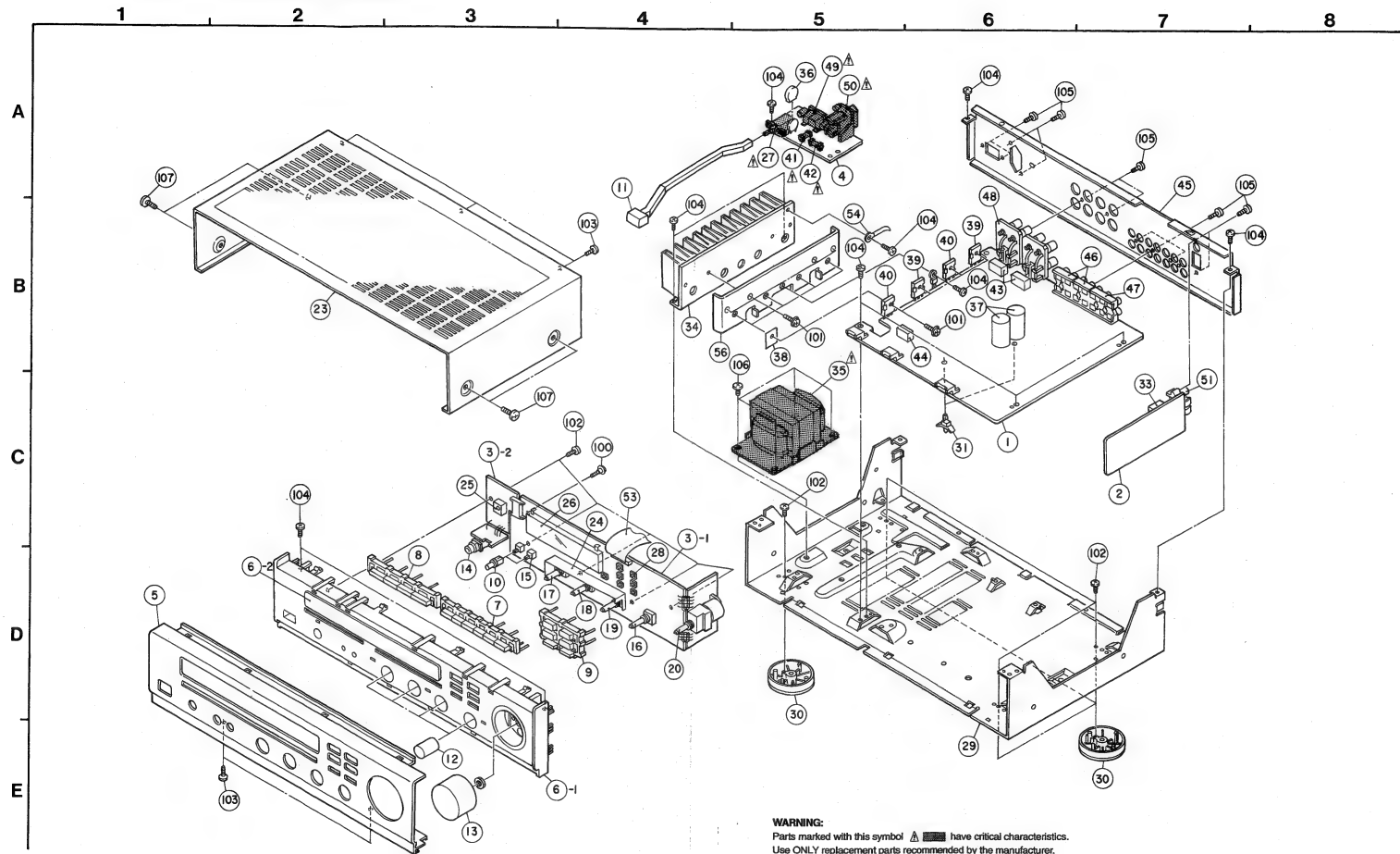
KU-9328 DISPLAY UNIT ASS'Y



1U-2818 TUNER UNIT ASS'Y



EXPLODED VIEW OF CHASSIS AND CABINET



PARTS LIST EXPLODED VIEW

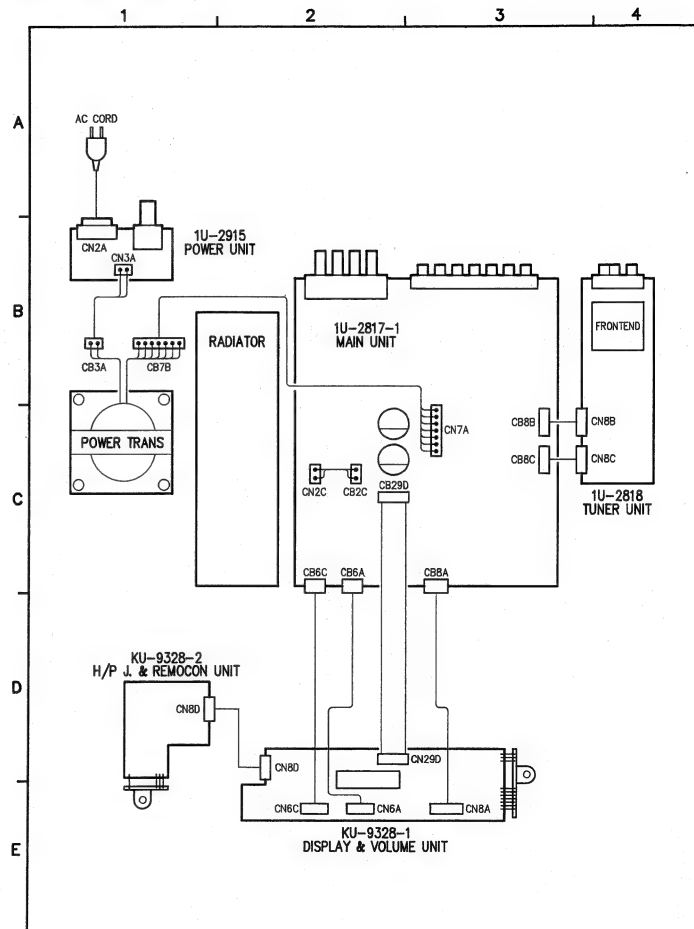
* Gold model = Except to U.K.

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
* 1	1U-2817 E	Main unit Assy	Europe model	1	* 36	415 0299 000	Capacitor cover		1
—	—	—	—	—	37	254 6201 002	Electrolytic capacitor	C257,258	2
* 1	1U-2817 F	Main unit Assy	U.K. model	1	38	415 0234 007	Insulating sheet		4
—	—	—	—	—	39	271 0240 006	Transistor 2SA1491(OP/V)	TR323,324	2
* 2	1U-2818	Tuner unit Assy		1	40	273 0389 002	Transistor 2SC3855(OP/V)	TR321,322	2
* 3	KU-9328	Display unit Assy		1	△ 41	206 1075 030	Fuse (20A)	F401	1
—	—	Display & Volume unit		—	△ 42	206 1075 001	Fuse (1A)	Except to U.K.	1
—	—	HP I & Remcon unit		—	43	214 0167 005	Relay(GS2-2A)	RL451,452	2
—	—	—		—	44	214 0127 003	Relay(RY-12W)	RL453	1
4	1U-2915	Power unit Assy		1	* 45	105 1187 104	Rear panel	Europe model	1
* 5	144 2487 002	Front panel	Black model	1	* 45	105 1187 117	Rear panel	U.K. model	1
* 5	144 2487 015	Front panel	Gold model	1	46	204 8485 009	4P pin jack(S-GND)		2
5-1	146 1602 004	Inner panel Assy	Black model	1	47	204 8486 006	6P pin jack(S-GND)		1
5-2	143 9187 001	(Window)		—	48	205 0484 001	8P speaker terminal	Europe model	1
5-1	146 1602 017	Inner panel Assy	Gold model	1	48	205 0472 013	8P speaker terminal	U.K. model	1
5-2	143 9187 001	(Window)		—	△ 49	203 2349 006	2P inlet	CH2A	1
7	113 9325 008	Series button (A)	Black model	1	△ 50	203 3961 004	1P AC outlet	Except to U.K.	1
7	113 9325 011	Series button (A)	Gold model	1	* 51	205 0847 004	3P antenna terminal(PAL/F)		1
8	113 9326 007	Series button (B)	Black model	1	53	009 0134 009	29P FFC cable		1
8	113 9326 010	Series button (B)	Gold model	1	54	445 0048 003	Cord holder(L=76)		1
9	113 9324 229	Function button	Black model	1	56	417 0520 102	Sub radiator		1
9	113 9324 232	Function button	Gold model	1					
10	113 9323 000	Push button (SP)	Black model	2	SCREWS				
10	113 9323 013	Push button (SP)	Gold model	2	100	477 0282 005	Special screw		1
11	113 1721 105	Power button Assy	Black model	1	101	473 8007 009	Cup screw 3x12		8
11	113 1721 011	Power button Assy	Gold model	1	102	473 7500 044	Screw 3-8 (P) BK		9
12	112 0738 001	*Knob (Menu)	Black model	4	103	473 7015 018	Screw 3-8 (S) BK		5
12	112 0738 014	*Knob (Menu)	Gold model	4	104	473 7002 018	Screw 3-8 (S)		12
13	112 0737 029	*Volume knob	Black model	1	105	477 8057 004	Fixing screw 3x10 BK		11
13	112 0737 032	*Volume knob	Gold model	1	106	473 7004 016	Screw 4-8 (S)		4
14	204 8354 017	Head phone jack	Black model	1	107	473 7007 013	Screw 4x10 (S) BK	Black model	4
14	204 8355 003	Head phone jack	Gold model	1	107	473 4801 005	Screw 4-8	Gold model	4
15	212 1140 009	Push switch(ESB6440)	SW3002,303	2					
16	211 9131 004	Variable resistor	VR307	1					
17	211 0642 017	Variable resistor	VR303	1					
18	211 0643 016	Variable resistor	VR304	1					
19	211 0641 018	Variable resistor	VR301	1					
20	211 0831 002	Variable resistor	VR302	1					
* 23	102 0571 013	Top cover	Gold model	1					
* 23	102 0571 000	Top cover	Black model	1					
* 24	414 0740 006	Shield plate		1					
25	499 0150 006	Remote sensor	SBX1610-52	1					
26	383 4155 002	FL tube	FIP14AM/R	1					
△ 27	212 1031 008	Power switch (TV-S)		1					
28	212 5604 910	Tact switch		16					
		SW601-603,605-617							
* 29	411 1323 300	Chassis		1					
* 30	104 0230 101	Foot Assy		4					
* 31	449 0033 049	Looking card spacer		2					
33	216 0065 006	Front end		1					
* 34	417 0529 006	Power radiator		1					
△ 35	233 0194 002	Power Transformer		1					

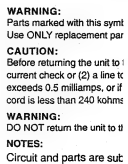
PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty
* 505 0293 018		Envelope		1
* 511 2840 001		Operating instructions		1
231 1914 003		AM loop antenna		1
395 0023 008		*FM antenna Assy		1
399 0242 001		Remote control unit	RC-174	1
△ 206 2108 003		AC connector With plug	Europe model	1
△ 206 2113 001		AC cord With connector	U.K. model	1
* 505 0131 050		Cabinet cover		1
* 503 1140 109		Cushion		2
* 501 1871 045		Carion case		1

WIRING DIAGRAM



6



6

7

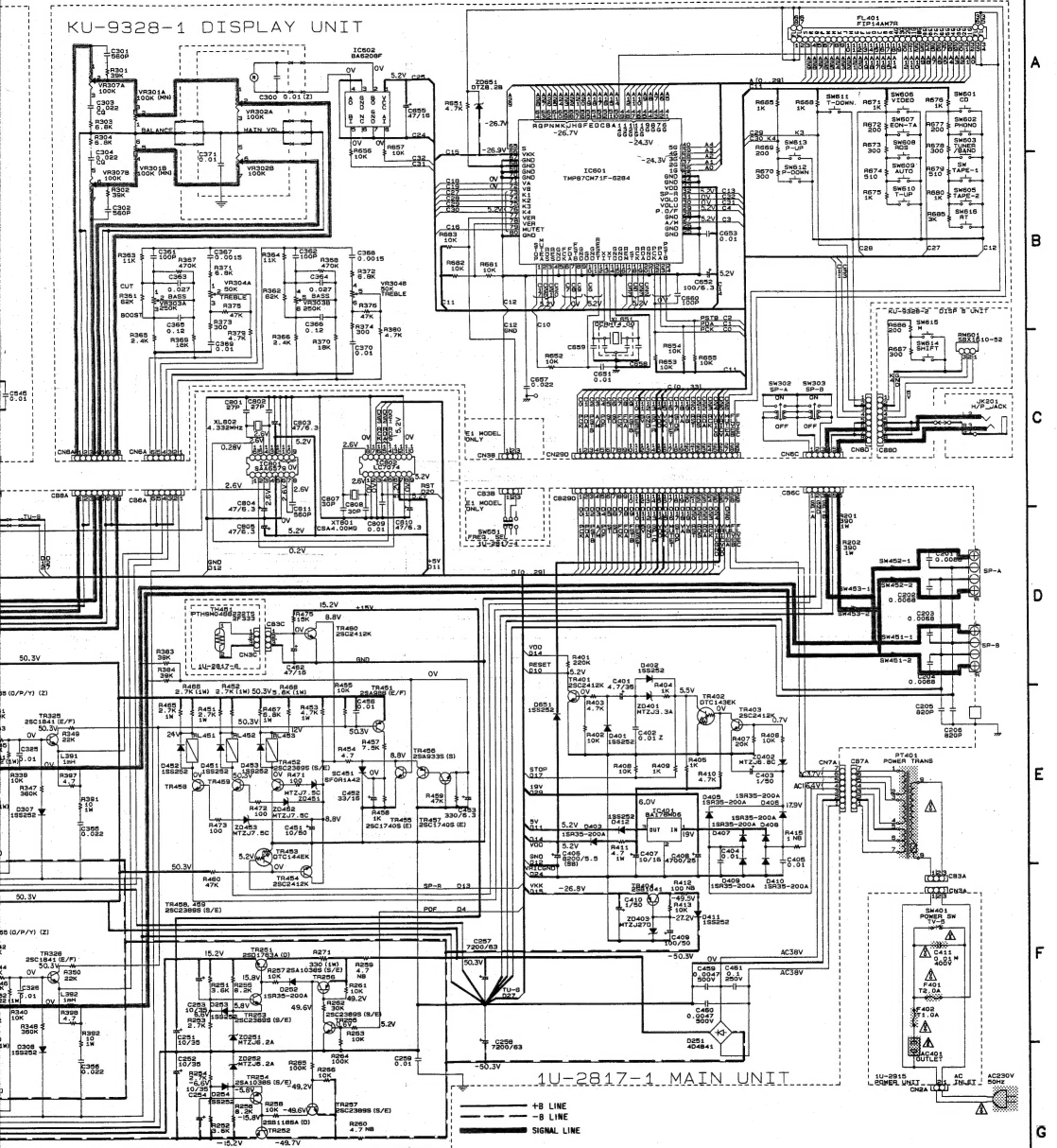
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11

KU-9328-1 DISPLAY UNIT



WARNING: Marked with this symbol Δ have critical characteristics.
ONLY replacement parts recommended by the manufacturer.

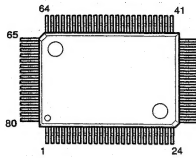
CAUTION: When returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current is less than 0.5 milliamperes, or if the resistance from chassis to either side of the power is less than 240 kilohms, the unit is defective.

WARNING: Do NOT return the unit to the customer until the problem is located and corrected.

NOTES: Circuit and parts are subject to change without prior notice.

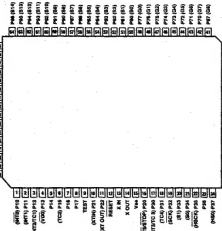
IC's

TMP87CM71F-6348 (IC601)

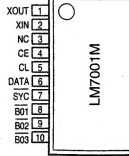
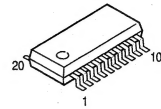


TMP87CM71F Port Allocation Table

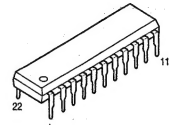
Pin No.	Symbol	IO	Logic	Initial Setting	Function
1	STOP	I	—	—	Power down detection (TV = all power down)
2	MUTE (A)	I	—	—	MUTE (A) output (TV = MUTE)
3	RDS	I	Serial	—	RDS data (serial input)
4	RES	O	L	H	LCR/TA reset output
5	GND	I	Serial	—	Not used
6	POK	O	Serial	L	Function control output (0.7V/1.1 for F-CH)
7	FSH	O	Serial	L	Function control output (0.7V/1.1 for F-CH)
8	F-STB	O	H	L	Function control output (0.7V/1.1 for F-STB)
9	GND	I	—	—	Connect to GND
10	RD	I	L	—	Tuned signal input (TV = all tuned in)
11	GND	I	—	—	Not used
12	RESSET	I	L	—	Reset input
13	30M	I	—	—	Deinterlace circuit (40MHz)
14	XOUT	I	—	—	Oscillator circuit (40MHz)
15	VGA	I	—	—	GND
16	GND	I	—	—	GND
17	REM	I	L	—	Remote control signal input
18	RT	I	L	—	Remote signal input (TV = all power)
19	RCK	I	Serial	—	RDS data (serial input)
20	RDA	I	Serial	—	RDS data (serial input)
21	GND	I	—	—	Not used
22	POK	O	Serial	L	LMP001 control output for PLL-CLK (CLK)
23	FSH	O	Serial	L	LMP001 control output for PLL-CLK (DATA)
24	FSH	O	H	L	LMP001 control output for PLL-CLK (DATA)
25	GND	O	—	L	GND
26	GND	O	—	L	GND
27	AM	O	L	L	AUTOMANUAL control
28	GND	I	—	—	Not used
29	P-OP	O	H	L	Power volume control output (0.8V/0.9 OH = all TV)
30	VRLUP	O	H	L	Power volume control output (0.8V/0.9 OH = all TV)
31	VRS	O	H	L	Power volume control output (0.8V/0.9 OH = all TV)
32	SP-AL	O	H	L	Speaker relay control output (OH = all TV)
33	VIS	PW	—	—	Key input IAD connection inputs
34	GND	I	—	—	GND
35	GND	I	—	—	GND
36	GND	I	—	—	GND
37	15	O	—	—	FL tube control output for 15L
38	35	O	—	—	FL tube control output for 35L
39	35	O	—	—	FL tube control output for 35L
40	45	O	—	—	FL tube control output for 45L



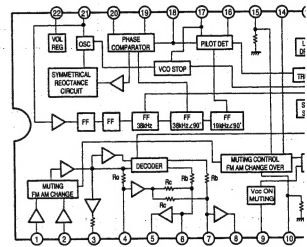
LM7001 (IC503)



LA3401 (IC502)

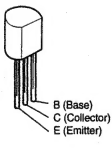


BA6201

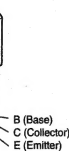


TRANSISTORS

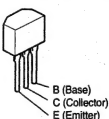
2SA988(E/F)
2SA1515(R)
2SC1815(Y)
2SC1841(E/F)



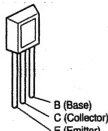
2SB647A(C)
2SB1041(R)
2SD667A(C)



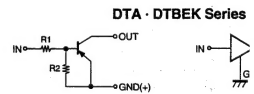
2SA933S(S)
2SA1038S(E)
2SC1740S(E)
2SC2389S(E)



2SB1328(P)
2SD2004(P)

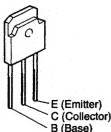


Digital Transistor
(Built in Resistors)

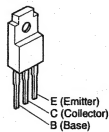


	R1	R2
DTA114EK	10kohm	10kohm
DTB123EK	2.2kohm	2.2kohm

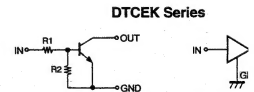
2SA1491 (O/P/Y) (TR323,324)
2SC3855 (O/P/Y) (TR322,322)



2SB1186A (D)
2SD1763A (D)



DTA114EK
DTB123EK
DTC114EK
DTC143EK
DTC144EK
(Chip)

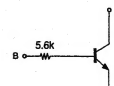


	R1	R2
DTC114EK	10kohm	10kohm
DTC143EK	4.7kohm	4.7kohm
DTC144EK	47kohm	47kohm

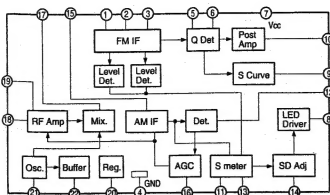
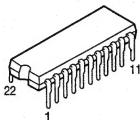
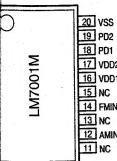
RN-1241(A/B)



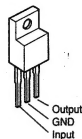
RN-1241



LA1265 (S)
(IC501)

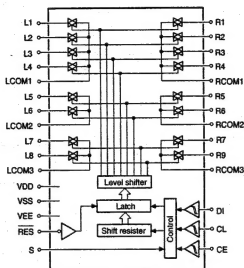
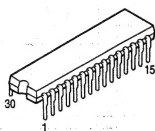
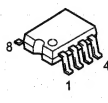


NJM78M12FA (IC504)
BA178M06 (IC401)

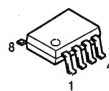


LC7821 (IC101)

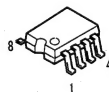
BA6208F (IC602)



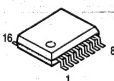
NJM2082MD (IC701)



BA15218F (IC301)

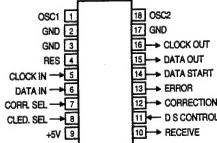
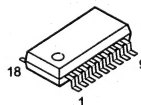


SAA6579T (IC801)

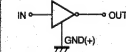


Pin No.	Symbol	Description
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	V _{ref}	Reference voltage output (0.5 V _{cc}).
4	MUX	Multiplex signal input.
5	V _{DDA}	+5 V supply voltage for analog part.
6	V _{SSA}	Ground for analog part (0 V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier output of reconstruction filter.
9	TSTLD	Test control.
10	TEST	Test enable.
11	V _{SSD}	Ground for digital part (0 V).
12	V _{DDO}	+5 V supply voltage for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	Ts7	57 kHz clock signal output.
16	RDCL	RDS clock output.

LC7074M (IC802)

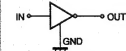


HEK Series



R1	R2
2k Ω	10k Ω
2k Ω	2.2k Ω

Series



R1	R2
1k Ω	10k Ω
1k Ω	4.7k Ω
1k Ω	47k Ω

2SK209 (Y/RG)



1: Drain
2: Source
3: Gate

2SA1037 (S/R)
2SC2412 (S)
2SC2413K (Q)
2SC2712 (Y/RG)
DTB123EK



1: Emitter
2: Base
3: Collector

● DIODES (included LED)

1SS252

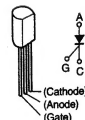
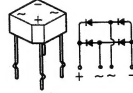
1S2471

MTZJ3.3A
MTZJ6.2A
MTZJ6.8C

MTZJ7.5C
MTZJ27D

4D4B42

SF0R1A42



2SK211 (Y/RG)



1: Gate
2: Drain
3: Source

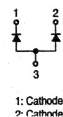
1SR35-200 (A)



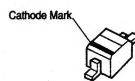
DAP202K
(Chip)



DAP202K



DTZ8.2B



SBX1610-52 (Remote Control Sensor)

